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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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5775 MOREHO	OUSE DR.		D AGOSTA, STEPHEN M	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			11/05/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)
	09/832,397	ZIV ET AL.
Office Action Summary	Examiner	Art Unit
	Stephen M. D'Agosta	2617
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 11 A 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowated closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 28-38 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 28-38 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or compared to the specification is objected to by the Examination.	awn from consideration. or election requirement.	
10) The drawing(s) filed on is/are: a) acceptable and acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct should be acted as the correct should b	cepted or b) objected to by the lead of a drawing of the held in abeyance. Section is required if the drawing (s) is objection is	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list.	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8-11-2008 has been entered.

- 1. The IDS's have been signed. Thank you for re-sending.
- 2. The wording of new claim 38 should state that the instructions/program is stored/embodied on a computer readable medium (and support should be found in the specification specifically identifying this fact and what medium(s) are envisioned. NOTE that signals, carrier waves, transmission media and paper are not statutory).
- 3. A USC 112 rejection is put forth since no "computer readable medium" phraseology is found in the specification to support the statutory wording required for a program-based claim.
- 4. No **TERMINAL DISCLAIMER** was transmitted in the RCE since the claims continue to read on parent application (now patent) US 6,292,662. Please fax/send a new one.
- 5. Note that Kotzin does show that a certain/specific type of call will be (must be) routed through the PSTN (see figure 3 which shows a connection from wireless to PSTN). New art is added to reinforce this concept.

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Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

<u>Claim 38</u> rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim does not specifically state that the program is stored on a "computer readable media/medium".

Examples of <u>acceptable language</u> in computer-processing related claims:

1.	"computer readable medium" encoded with [a] "a computer program"
	[b] "software"
	[c] "computer executable instructions"
	[d] "instructions capable of being executed by a computer"
2.	"a computer readable medium" "computer program"
	[a] storing a
	[b] embodied with a
	[c] encoded with a
	[d] having a stored
	[e] having an encoded

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 38 rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The requirement for statutory claim phraseology for a computer readable media/medium, critical or essential to the practice of the invention, is not included/enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). In order for an applicant to recite a "computer readable medium and program", they must a) write it in USC 101-compliant wording and b) ensure that specific support is found in the specification. *The applicant does not empirically identify that the program in question is "embodied/stored" on a "computer readable medium"*.

Para #1023 in their specification does not specify computer readable medium.

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Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

<u>Claims 28-38</u> rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-5 of U.S. Patent No. 6,292,662.

Although the conflicting claims are not identical, they are not patentably distinct from each other because both recite routing/coding of a call between two wired/wireless users whereby said call is routed via wireless/wired networks.

-- Please send a Terminal Disclaimer with any new correspondence.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

<u>Claims 28-38</u> rejected under 35 U.S.C. 103(a) as being unpatentable over Kotzin and further in view of Roach and {Sammarco or Dahlin} {Widmark or Munk}.

As per claims 28, 31, 33, 35 and 38, Kotzin teaches a method for processing a telephone call from a first subscriber unit that is part of a first wireless telephone system (figure 2 shows mobile users/infrastructure connecting to wired users via PSTN), the method comprising:

receiving a request to make the telephone call to a second subscriber unit (figure 2 shows that wireless users can connect to wired users and vice versa);

determining whether the second subscriber unit is part of the first wireless telephone system AND routing "voice" data from the first subscriber unit to the second subscriber unit within the first wireless telephone system if the second subscriber unit is part of the first wireless telephone system (figure 2 shows that wireless/wired users can call each other and inherently requires any/all routing and signal translation; and

(14) Access by an MS to a local BTS may allow the MS telephony access to a communication target, such as another MS, served by the same, or another BTS, or to a subscriber within a public switched telephone network (PSTN). Access by the MS to a local BTS may also provide the MS access to a diversity of other data services.

In general, <u>communication access is provided to the MS through a cellular infrastructure system which, in the case of a PSTN target, may include the BTS, a base station controller (BSC), a mobile switching center (MSC), and the PSTN network. Under GSM, a BSC may control a number of BTSs. An MSC, connected to the PSTN network, may control a number of BSCs. (C2, L58 to C3, L3).</u>

But is silent on vocoders and conversion to tones AND converting the voice data and routing the tones through a wire-based telephone system to the second subscriber unit if the second subscriber unit is part of a second wireless telephone system.

The examiner notes that cellular systems began as analog systems and migrated to digital. The PSTN is analog and thus would require a "translating/conversion" if when a wireless caller is connecting to a wired caller (or vice versa). The vocoder (eg. voice coder/decoder) is a well known component which translates/codes the human voice from analog into an encoded signal with a certain number of bits/resolution and would be used by the mobile phone to convert the human voice for RF transmission, but a translation would be needed in order to route the signal to/from the PSTN.

Roach teaches a wireless digital network whereby conversion is performed to route calls between wired and wireless users (eg. translation, signaling, etc. is performed), see Abstract and figures. Roach also teaches explicit use of vocoders (C13, L1-38).

Regarding routing a call from the wireless network to a wired network, this would be required if/when the two users are part of different wireless networks and/or possibly when the call is a long-distance call. It is "*inherent*" that the networks must identify where the two users are located and how to connect them (eg. use PSTN network or not):

- a. Widmark clearly teaches connecting two mobile users (connected to two different MSC/networks via a PSTN network, Abstract, figures 1, 3, 5, 7)
- b. **Munk**, from applicant's IDS also teaches a wireless subscriber connecting to a PSTN network to connect to another user (see Abstract, figure 1). The other user could be either connected to the PSTN or to a wireless network.

It would have been obvious to one skilled in the art at the time of the invention to modify Kotzin, such that vocoders and conversion to tones is supported, to provide means for connecting wired and wireless users together.

With further regard to claim 33, the prior art above teaches connections to the PSTN which supports either local or long distance calling.

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With further regard to claim 38, note that the above art disclose both hardware and software (eg. computer readable programs) to perform the tasks identified.

As per **claims 29 and 36**, the combo teaches claim 28/35, wherein converting and routing further comprising: signaling to the second wireless system that the vocoded data will be transmitted in tones (both Sammarco and Dahlin teach use of coding/vocoding and handshake/signaling would <u>inherently</u> be required to establish the link as well as setup any/all parameters needed for optimal communication, eg. type of signal, channel rate, etc., which reads on the claim).

As per claims 30, 32, 34 and 37, the combo teaches claim 28/31/32/35, but is silent on wherein converting and routing further comprising: establishing an all digital (or ATM) link to the second wireless telephone system; and delivering the vocoded data to the second wireless system over the all digital (or ATM) link.

The examiner <u>notes takes Official Notice</u> that use of different links is well known and one skilled can select analog, digital, different rates, different transmission protocols such as T1/T3, Sonet, ATM, IP-based, TDMA/FDMA, etc.. Hence an all digital link would be used by one skilled.

Widmark and Munk teach use of PSTN "wired" connections and Munk specifically discloses support for ATM (page 5, point #4).

Note that the prior art of record teaches myriad ways/designs in which to transmit/receive data (ISDN, RF, TDMA/FDMA, cellular, etc.)>

It would have been obvious to one skilled in the art at the time of the invention to modify the combo, such that an all digital/ATM link is established, to provide means for supporting the transmission of data to/from users via many different conveyances, eg. analog/digital, different protocols, etc..

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 571-272-7862. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 571-272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen M. D'Agosta/ Primary Examiner, Art Unit 2617